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ATTACHMENT C

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.....

BellSouth Cellular/SBC RFQ

Network Solution for E911 Phase II

.....

PRIVATE/PROPRIETARY:

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Intended only for those persons with a need to know.

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Purpose of the RFP

The purpose of this Request For Proposal is to obtain detailed supplier technical, planning, and pricing information regarding their their Advanced Location Services equipment, systems, applications, and services.

With regards to the future potential for Advanced Location Services, the most immediate need is to meet the FCC Phase 2 E911 location requirements (125 meter 67% RMS)*. We feel that these are truly minimum requirements and expect that any Advanced Location Services system deployed in the Ameritech Cellular network to perform with a much higher degree of accuracy.

General RFP Requirements

Following are the general RFI requirements:

1.1 Pricing and Other Required Information

Provide firm pricing and all information in sufficient detail to show all required system components and software based upon the requirements in this RFP. Ameritech Cellular reserves the right to reject any or all responses or portions thereof and to waive any informality or irregularity in any response received.

1.2 Treatment of Information

All information contained in this RFP is confidential and proprietary. Said information shall be used by your company only for the purpose of submitting a response to this RFP. Said information shall not be disclosed to any employee of your company without a need to know or to any third party without the prior written consent of _____.

NO SPECIFICATIONS, DRAWINGS, SKETCHES, MODELS, SAMPLES, TOOLS, COMPUTER PROGRAMS, TECHNICAL INFORMATION OR ANY OTHER DATA, WRITTEN, ORAL OR OTHERWISE FURNISHED BY YOU TO US HEREUNDER OR IN CONTEMPLATION HEREOF SHALL BE CONSIDERED OR CLAIMED BY YOU TO BE CONFIDENTIAL OR PROPRIETARY UNLESS SPECIFIED BY YOU IN WRITING IN ADVANCE. RELIABILITY INFORMATION MAY BE SUBJECT TO OUTSIDE REVIEW, SUBJECT TO EXISTING NON-DISCLOSURE PROVISIONS.

1.3 Response Due Date

Your response, complete in all aspects, must be received in writing no later than 4:00PM (CST) Tuesday, August 29, 2000.

If you elect not to respond to this RFP, please notify us in writing as soon as possible but no later than the RFP due date. It is requested that this RFP be returned with your written notification.

1.4 Preparation of Response

Your company is responsible for any and all costs incurred in the preparation of a response to this RFP and----- shall have no responsibility therefor.

Your company's submission of a response to this RFP creates no rights or obligations upon ----- unless an agreement is negotiated and executed by both companies.

The response to this RFP must be made in the same format, paging, and question numbering scheme as it is presented. All sections of the RFP must be responded to. Responses must be

signed by a duly authorized representative of your company. An unsigned response will be rejected.

1.5 Response Requirements

We will require five (5) complete signed paper copies of your response and one (1) electronic copy. Please mark one paper RFP copy as "Master Copy." This RFP was created using Microsoft Word '97, Visio 4.0, and Microsoft Excel '97.

If discrepancies are found between the paper and electronic copies of your response, the "Master Copy" will govern. Your signed response must refer to RFP # 00-01-RJT and be mailed to:

Failure to direct your response to the above person may result in your response not being considered. No copies of your response should be directed to any other ----- personnel.

2.4.6 Questions/Matters (Technical, Business, and Other)

----- is your single point of contact for all questions/matters related to this RFP. All questions/matters related to this RFP are to be directed to him, in writing, at the following address, FAX, or e-mail. In the interests of fairness, questions and answers may be shared by -----with all other companies being asked to respond to this RFP. Proprietary or confidential information will not be disclosed. To insure that your inquiries can be given proper and timely attention, we ask that they be submitted at least ten (10) days prior to the due date for this RFP. However, where time constraints necessitate a verbal inquiry, contact ----- on ()xxx-xxxx.

Technology and Availability

Technology Support

Please provide information highlighting your products' ability to support the following technologies. Your response should include how and when you plan to support technologies currently not supported by your product. For those technologies in beta test or currently available, please state if you have conducted field trials with a service provider.

- Analog
- ANSI 136
- GSM
- CDMA IS 95
- 1XRTT
- EDGE
- EDGE Compact
- VoIP On EDGE Carriers
- WCDMA
- CDMA 2000

Note: Please specify technology support for each of the following bands 800MHz, 1900MHz, 1900MHz, and 700MHz.

Standards Supported

Please state the level of standards compliance of your products' with the following standards. Please note all exceptions.

	Comply	Comply with exception
IS-41A/IS-53 Rev. 0		
IS-41B/IS-53A		
IS-41C		
IS-41D		
J-STD-034 Wireless Enhanced Emergency Services		
PN-3890 Phase II Emergency Services		
PN-4288 Emergency Services Beyond FCC Mandate		
Telcordia (Bellcore) GR-63-CORE and GR-1089-CORE Network Equipment Building Systems ("NEBS")		
PN-XXXX Location Services for Spread Spectrum Systems (future – balloted 5/99)		

Call Scenarios

Please describe how your product supports the following call scenarios:

TDMA

- Position on analog call setup

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- Analog Control setup to analog Voice channels.
- Analog Control setup to digital Voice channels.
- Analog voice channel tracking.
- Analog idle mode tracking.
- Position on digital call setup.
- Digital voice channel tracking.
- Multiple Digital Control channels per sector.
- Digital (TDMA) setup to an analog voice.
- Digital setup to digital traffic channel.
- Digital idle mode tracking.
- Signal Message Encryption.
- Voice Encryption.

GSM

- Position on GSM call setup.
- GSM idle mode tracking.
- Tracking on a GSM voice channel.
- Tracking on a frequency hopping voice assignment in GSM.

Note: "Digital" implies ANSI 136 digital technology unless specified.

Repeater Support

1. Please describe how your product can locate mobiles served by an F1-F1 repeater?
2. Please describe how your product can locate mobiles served by an F1-F2 repeater?

System Retune and Performance Monitoring

1. Please describe the process by which your product stays in sync with the cellular/PCS network when the channels are retuned. This should include any manual or automated procedures required to maintain system performance.
- 2.

4.6.2.1 Components

Include all required and optional network, server, handset, and PSAP hardware and firmware, power and space requirements, including any switch and/or SCP requirements. Include any system redundancy options.

4.6.2.2 Software Features and Dependencies

Include all required and optional network, server, handset, and PSAP application software and feature requirements and dependencies, including any switch and/or SCP requirements. Include a list of those PSAP mapping/CAD systems that your system supports.

4.6.2.3 Physical connectivity

Provide end-to-end interface requirements and protocols, LEC/CLEC interconnection requirements, ALI database requirements, and any wireless network and LEC 911 network interface hardware and software.

4.6.2.4 Service Provisioning Requirements

Provide detailed wireless network and LEC switch translation requirements and dependencies.
Also provide detailed service provisioning requirements (Done at cell site level? Class of Service? Automated input/Interfaces?)

4.6.2.5 Call Flow Diagrams

Provide end to end system call flow diagrams that show call set-up, progress, and completion messages and data flows using "pong" diagrams. These should include as a minimum: 911 call set-up and location delivery, 911 call location update (request and delivery), 911 call transfer, 911 call-back, and 911 call termination. Commercial services should have their own diagrams showing the above operations where applicable.

Section 4.6.3 Product and Services Traffic Information

Please provide typical per call and busy hour voice and data traffic requirements for each leg of the proposed product and/or service. Pay particular attention to traffic on any Mobile handset to RF voice and control channel and STP or SCP link requirements and applicable system throughput (TPS).

System Dimensioning Information

1. Are there LMU requirements? If so, your response should include, but not be limited to, the following information.
 - Do we need a DS0?
 - How many cells per LMU are required to meet the FCC network requirements?
 - Are external antennas required?
 - If external antennas are required, please provide specifications. This should include physical dimensions and wind loading specs.
 - If antennas are required, where do they need to be positioned?
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 - What are the electrical and space requirements?
 - If our cells have more than three sectors, does your system require any addition hardware?
2. What are the requirements of the Mobile Positioning Server (MPS)? Your response should include, but not be limited to, the following.
 - How many LMUs can an MPS serve?
 - Does your MPS support standardized interfaces?
 - How will the MPS interface with the PSAP hardware and software?
 - What is the cost per MPS?
 - Will the MPS support both mobile assisted and mobile-based solutions and handsets?
 - What are the electrical and space requirements?
 - Does the MPS require an antenna?
3. What are the requirements related to the Mobile Positioning Center (MPC)? Your response should include, but not be limited to, the following.
 - Mobile Positioning System interface requirements for Generic MPC.
 - Specific MPC testing/integration performed to date and plans for future
 - Do you provide an MPC as an OEM? If so, please detail.
 - Do you provide an MPC function via a third party. If so, please detail.